(NO:2020.04)



NXR-200~630 Electronic Overload Relay

User Instruction

A Safety Warning

- 1 Only professional technicians are allowed for installation and maintenance.
- [2] Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden.
- 3 When the product is being installed or maintained, the power must be switched off.
- (4) You are prohibited from touching the conductive part when the product is operating.

1 Use Purpose

NXR-200, NXR-630 electronic overload relay (hereinafter referred to as relay) is applicable to circuits with frequency of AC 50Hz or 60Hz, rated operating voltage up to 690V and current from 80A to 630A. It is used for overload protection and phase-failure protection of 3-phase AC motor. It can also be used with corresponding contactor to act as magnetic starter.

2 Main Technical Parameters

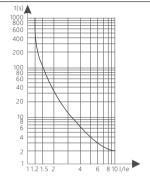
2.1 See Table 1 and Table 2 for product technical parameters

Environmental conditions				
Ambient temp. (°C)	-5°C~+40°C, average temperature should not exceed +35°C within 24h			
Hot and humid atmospheric conditions	Relative humidity should not exceed 50% at +40°C; up to 90% at +20°C;			
Altitude	No influence below 2000m			
Pollution class/installation category	Class 3/III			

Table 1 Environmental conditions

Table 2 Technical parameters

		Technical	parameters			
Mod	del	NXR-200		NXR-630		
Phase-failure	protection	Yes		Yes		
Reset function		Manual reset		Manual reset		
Release indication		Yes		Yes		
Test fur	nction	Yes Yes		Yes		
Emergency st	op function	Yes Yes				
Setting current range (A)		80-160	100-200	125-250	200-400	315-630
Matching contactor		NXC-12	20~225	NXC-26	55~400	NXC-500~630
Auxiliary	contacts	1NO+1NC				
Rated insulation voltage Ui		690V				
Rated operatin	g voltage Ue	660V/690V and below				
Rated impulse withs	tand voltage Uimp	6kV				
	Ith	5A				
Auxiliary circuit	AC-15	220V/230V 2.5A; 380V/400V 1.5A				
	DC-13	220V 0.2A				
Protection class		IP00				

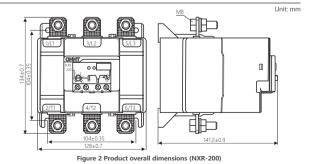


2.2 See Figure 1 for relay operation time - current characteristic curve (3-phase, thermal state)

Figure 1 Relay time - current characteristic curve

3 Installation

3.1 Installation



CHNT NXR-200~630 Electronic Overload Relay

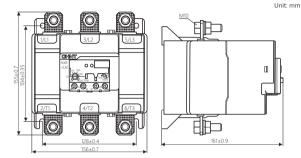


Figure 3 Product overall dimensions (NXR-630)

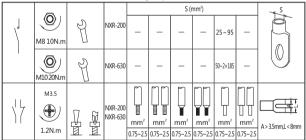
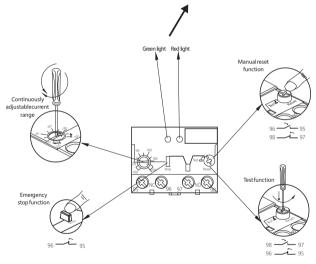


Table 3 Wiring torque reference

3.2 Operation and commissioning

Table 4 Indicator status				
Inndicator status	Circuit working status			
Green light flashing, red light off	Normal			
Green light flashing, red light on	Overload delay			
Green light on, red light flashing	Phase-failure delay			





4 Maintenance

Clean the dust on the electronic overload relay timely. Conduct product test and maintenance every half a year to ensure the smooth operation of the product and the good contact of NO and NC contacts. Tighten the terminal screws with specified torque and align the load protection capability of the electronic overload relay according to commissioning requirements.

Please be careful when handling and installing the relay. It is prohibited to move the product by crane so that the product will not be damaged and its protection characteristics will not be changed due to strong impact.

Symptoms	Cause anaylsis	Troubleshooting method and precautions	
Misoperation	Size is too small	Change to product with bigger size.	
of thermal relay without	The set current value is smaller than the actual operating current of the motor.	Fine tune the cam clockwise so that the set current matches the actual motor current.	
the motor being overloaded	Strong shock or vibration	Check installation status and conduct troubleshooting. Do not place the product in environment with strong shock or vibration.	
Thermal	The size is too big	Change to product with smaller size.	
relay does not operate.	The set current value is bigger than the actual operating current of the motor.	Fine tune the cam counter-clockwise so that the set current matches the actual motor current.	
Thermal	The product is not reset.	Press the reset button to reset the relay.	
relay does	Auxiliary contacts are not powered-on.	Replace thermal relay.	
not work.	Main circuit or auxiliary circuit is burnt.	Replace thermal relay.	

Table 5 Analysis and Troubleshooting of Faults

5 Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process, or be sent to the recycling station for assortment, dismantling and recycling according to local regulations.

CHNT		
QC PASS		
NXR-200~630 Electronic Overload Relay IEC/EN 60947-4-1		
Check 21		
Test date: Please see the packing ZHEJIANG CHINT ELECTRICS CO., LTD.		



NXR-200~630 Electronic Overload Relay User Instruction

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